

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: October 1, 1996
Date Received: September 26, 1996
Project: Metro Self Monitor, PO #M54661
Date Samples Extracted: September 26, 1996
Date Extracts Analyzed: September 27, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M54661	1.2	0.84	1.4	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 73032 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	<0.05	<0.05	nm	0-20
Copper	mg/L (ppm)	<0.05	<0.05	nm	0-20
Nickel	mg/L (ppm)	<0.05	<0.05	nm	0-20
Zinc	mg/L (ppm)	0.16	0.16	0	0-20

Laboratory Code: 73032 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	<0.05	102	100	80-120	2
Copper	mg/L (ppm)	5	<0.05	103	98	80-120	5
Nickel	mg/L (ppm)	10	<0.05	101	100	80-120	1
Zinc	mg/L (ppm)	5	0.16	99	97	80-120	2

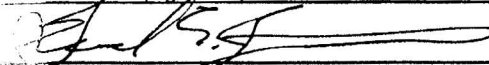
Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	105	105	80-120	0
Copper	mg/L (ppm)	5	102	99	80-120	3
Nickel	mg/L (ppm)	10	103	103	80-120	0
Zinc	mg/L (ppm)	5	101	102	80-120	1



nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

KNJS AI
9-26-96
1:50pm

Send Report To: Alaskan Copper Works Contact: GERALD Thompson
Company: Alaskan Copper Works
Address: 628 4th St
City, State, Zip: SEATTLE WA 98134
Phone # (206) 352-8779 FAX # (206) 382-7709 Date: 9-2-86

DATE NO. 7238	PROJECT NAME METRO Self monitor	PURCHASE ORDER # M 54661
SAMPLERS (signature) 	PROJECT LOCATION P200 6th Ave S.	
REMARKS	SAMPLE DISPOSAL INFORMATION <input checked="" type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Received by: 	Gerald A. Thayer	ACLU	9/26/96	1:41
Received by: 	John A. Wright	F + B Inc.	9-26-96	1:41
Received by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

October 1, 1996

**INVOICE # 96ACU1001-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M54661: Results of testing requested by
Gerry Thomspen, Project Manager for material submitted on September 26,
1996.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

October 1, 1996

Gerry Thomspen, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thomspen:

Enclosed are the results from the testing of material submitted on September 26, 1996 from your Metro Self Monitor, PO #M54661 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
ACU1001R.DOC